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PATENT

INSTITUT FRANÇAIS DU PETROLE

**SYSTEM FOR INJECTING A DIVERTED FLUID IN A SIMULATED MOVING  
BED SEPARATION PROCESS**

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**ABSTRACT**

Device for separating at least one compound from a mixture in a simulated moving bed, comprising :

- an enclosure comprising several adsorbent beds, two adsorbent beds being separated by a fluid distribution and extraction plate (Pi), the plate comprising one or more distribution, mixing and/or extraction panels, comprising a chamber (Ci),
- main fluid delivery (4) and extraction (2) lines,
- several secondary fluid extraction or injection lines (10, 11, 12, 13, Ti),
- a bypass circuit communicating a distribution plate with a bypass line,
- means (14, Voi,j, 20) communicating at least one chamber (Ci) with at least one bypass line (Li,j),
- at least one of the ends of a bypass line communicates with a zone Ri, R'i of an adsorbent bed, said zone being distinct from a distribution chamber (Ci) and another end is connected to said chamber (Ci).